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KFSN4-DRE/iKVM/IST

"Split Power & Dual Link" Server with Efficient Remote Manageability

ASUS KFSN4-DRE/iKVM/IST is a 2-way server board which supports the latest Six-Core AMD Opteron™ 2400 series (Istanbul) processors. Featured with the latest "Dual Dynamic Power Management" and "Dual Link" technology, KFSN4-DRE/iKVM/IST is optimized for leading-edge native quad-core performance, targeting at HPC market and enterprise-class applications.

Processor / System Bus	2 x Socket 1207 Six-Core AMD Opteron™ 2400 series (Istanbul) Quad/Dual Core AMD Opteron™ 2300 series (Shanghai) Quad-Core AMD Opteron™ 2300 series (Barcelona) Dual-Core AMD Opteron™ 2200 series HyperTransport™ Technology 1.0, 1GHz (Dual-Core) 2x1M L2 cache / (Quad-Core)512KB L2 cache/Per core, 2MB L3
Core Logic	nVIDIA nForce Professional 2200
Form Factor	SSI EEB 3.61 12" x 13"
ASUS Features	Smart Fan Rack Ready (Rack and Pedestal dual use) ASWM2.0 Rack Optimized (Dedicated for Rack)
Memory	**Total Slots:** 16 (2-channel) Per CPU **Capacity:** Maximum up to 64GB **Memory Type:** DDR2 533/667/800 Reg. ECC* **Memory Size:** 512MB 1GB 2GB 4GB **
Expansion Slots (follow SSI Location #)	**Total PCI/PCI-X/PCI-E Slots:** 1 **Slot Location 1:** - **Slot Location 2:** - **Slot Location 3:** - **Slot Location 4:** - **Slot Location 5:** - **Slot Location 6:** 1 * PCI-E x16 (x16 link) **Additional Slot 1:** 1* SO-DIMM socket for optional management card
Storage	**IDE Controller:** nVIDIA nForce 2200 Professional: Dual Channel Bus Master IDE support UltraATA 100 / 133 **SATA Controller:** nVIDIA nForce 2200 Professional: 4 * SATA2 Ports, RAID 0, 1, 10, 5, JBOD (Windows)
Networking	**LAN:** 2 * Broadcom® BCM5721 PCI-E GbE LAN

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Graphic	**VGA:** XGI® Z9s VGA Controller / 32MB DDR2 VRAM
Onboard I/O Connectors	1 x PSU Connector 24-pin ATX power connector + 8-pin ATX 12V power connector 1 x Management Connector SO-DIMM socket for optional management card 1 x USB Connectors (support 2 USB ports) 1 x Fan Header 10 * 4pin 2 x SMBus 1 x Chassis Intruder 2 x Front LAN LED 1x Serial Port Header
Rear I/O Connectors	1 x External Serial Port 2 x External USB Port 1 x VGA Port 2 x RJ-45 1 x PS/2 KB/Mouse
Management Solution	**Software:** ASWM2.0 **Out of Band Remote Management:** Optional ASMB3-IKVM
Monitoring	CPU Temperature FAN RPM
EMI	US (FCC, CFR47 Part 15, Class B) Europe (CE, EN55022 & EN55024)
Environment	**Operation temperature:** 10℃ ~ 35℃ / Non operation temperature: -40℃ ~ 70℃ **Non operation humidity:** 20% ~ 90% (Non condensing)
Product SKUs	Standard Gift Box Pack Standard Bulk Pack
Note	*Refer to ASUS Server AVL for latest update **Memory Frequency support depends on the quantity of DIMM module population *** Floppy Connector is removed

"Split Power & Dual Link" Server with Efficient Remote Manageability

Next-Generation Six-Core AMD Opteron™ Processor Ready

- Supports Six/Quad/Duo-Core AMD Opteron™ 2400, 2300, 2200 series processors to offer up to 12-Core Computing Power

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Powered by Latest Technology – "Split Power" and "Dual Link"*

- Provides the best performance-per-watt for AMD processor-based platform via "Dual Dynamic Power Management" and "Dual Link" technology implemented
- Offers additional 14% performance gain & 66% CPU power saving for next-generation Six-Core AMD Opteron™ processor

16-DIMM Expandability

- 16-DIMM with 64GB memory scalability helps achieve the maximum AMD Six-Core Opteron™ computing power, optimal memory resource increase and efficiency for virtual workloads of Virtualization applications

Optional Out-of-Band Remote Management

- To provide customers with effective remote manageability, KFSN4-DRE/iKVM/IST provides optional ASMB3-iKVM to offer remote real-time access to servers with full control by keyboard, video monitor and mouse (KVM) of a single local computer at any time.

Optimal Thermal Placement for 1U Rack

- Front "Parallel-Balance" design with dual processors and 16-DIMM memory helps increase 20~30% thermal efficiency
- Two PCI-E expansion cards can be supported in 1U rack

Product SKU Comparisons

Model Name	**KFSN4-DRE/iKVM/IST**	**KFSN4-DRE/SAS/iKVM/IST**
4-port SATA (Support Software RAID 0, 1, 10, 5 for Windows)	V	V
4-port SAS Controller (Support Integrated RAID 0,1 & 1E)		V
4 * 7-pin SAS Connector		V
Expansion Slot	1*PCI-E x16	1*PCI-E x8

- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
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